

Summary

Experience of Gamma-Detecting Probe for the Survey of Sentinel Node in Gastroesophageal Malignancies

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Gamma-detecting probe NAVIGATOR GPS (Autosuture Japan) was evaluated by using of ^{99m}Tc . Linearity of counting in radioactivity was fairly good, but the sensitivity of the probe is so low, that sentinel node (SN) should contain the 3.7×10^{-3} MBq (0.1 μCi) of ^{99m}Tc or more for the most effective use of it. And the count rate of the gamma-detecting probe was

influenced by the distance and angle from the ^{99m}Tc source variously. It is important for the operator to know such characteristics of the gamma-detecting probe in order to obtain the correct SN judging.

Key words: Gamma-detecting probe, Sentinel node survey, Gastroesophageal malignancy.